

IN THE CLAIMS:

1. (Currently Amended) A system for using Dynamic Host Configuration Protocol (DHCP) address assignments to determine a local destination address of a received packet in a Network Address Translation (NAT) environment, the system comprising:

a DHCP server to assign local Internet Protocol (IP) addresses to devices on a local network;

a remote network, wherein the local IP addresses on the local network are not directly accessible to devices on the remote network;

a NAT device to translate addresses from the remote network to the local network;

a packet device to receive packets from the remote network; and

an addressing device to determine the local destination address of the packets received by the packet device, wherein the addressing device uses an association table created from symbolic names of the devices on the local network and the local IP addresses associated with the devices, and the addressing device determines a symbolic name of a destination address of a device from the packet, utilizes the association table to determine the destination address of the packet, and causes the packet to be sent to the destination address.

2. (Original) The system of claim 1, wherein the packet device is a router.

3. (Original) The system of claim 2, wherein the DHCP server is located at the router.

4. (Original) The system of claim 2, wherein the NAT device is located at the router.

5. (cancelled)

6. (Currently Amended) A method of using Dynamic Host Configuration Protocol (DHCP) address assignments to determine a local destination address of a received packet in a Network Address Translation (NAT) environment, the method comprising:

assigning local Internet Protocol (IP) addresses to devices on a local network;

receiving packets from a remote network, where the local IP addresses are not directly accessible to devices on the remote network;

executing translation of addresses sent from the remote network to the local network;

using an association table created from symbolic names of the devices on the local network and the local IP addresses associated with the devices; [and]

determining the local destination address of the received packets;

determining a symbolic name of a destination address of a device from the packets;

utilizing the association table to determine the destination address of the packets;

and

causing the packets to be sent to the destination address.

7. (Original) The method of claim 6, wherein a router receives the packets.

8. (Original) The method of claim 7, wherein the router includes a DHCP server.

9. (Original) The method of claim 7, wherein the router includes a NAT device.

10. (Cancelled)

11. (Original) The method of claim 6, wherein the remote network is an Internet.

12. (Currently Amended) An apparatus for using Dynamic Host Configuration Protocol (DHCP) address assignments to determine a local destination address of a received packet in a Network Address Translation (NAT) environment, the apparatus comprising:

a name acquisition device to determine symbolic names of devices on a local network;

an address acquisition device to determine local Internet Protocol (IP) addresses of the devices on the local network, wherein the local IP addresses are not directly accessible to devices outside the network;

a data transfer device to transfer data to a packet receiving device; and

an addressing device to determine the local destination address of the packet received by the packet device, wherein the addressing device uses an association table created from the symbolic names of the devices on the local network and the local IP addresses associated with the devices, and the addressing device determines a symbolic name of a destination address of a device from the packet, utilizes the association table to determine the destination address of the packet, and causes the packet to be sent to the destination address.

13. (Original) The apparatus of claim 12, wherein the packet receiving device is a router.

14. (Original) The apparatus of claim 13, wherein a DHCP server is located at the router.

15. (Original) The apparatus of claim 13, wherein a NAT device is located at the router.

16. (Cancelled)

17. (Currently Amended) A system for initiating an Internet Protocol (IP) telephony session over a local network, comprising:

an IP telephony device;

a packet device to receive packets from a remote network;

a DHCP server to assign local IP addresses to devices on the network, wherein the local IP addresses are not directly accessible to devices on the remote network;

a NAT device to execute network address translation;

an association device to create an association table from symbolic names of the devices on the network and the local IP addresses associated with the devices; and

an addressing device to determine, based upon the association table, a local destination address of each of the packets received by the packet device, and to cause each of the packets to be sent to the local destination address.

18. (Original) The system of claim 17, wherein the packet device is a router.

19. (Original) The system of claim 18, wherein the DHCP server is located at the router.

20. (Original) The system of claim 18, wherein the NAT device is located at the router.

21. (Currently Amended) An addressing device to use Dynamic Host Configuration Protocol (DHCP) address assignments to determine a local destination

address of a received packet in a Network Address Translation Environment, comprising:

    a computer-readable medium; and

    a computer-readable program code, stored on the computer-readable medium,

having instructions which, when executed, cause the addressing device to

        assign local Internet Protocol (IP) addresses to devices on a network,

        execute network address translation,

        receive remote packets from a remote network, where the local IP

addresses are not directly accessible to devices on the remote network,

        utilize an association table created from symbolic names of the devices on

the network and the local IP addresses associated with the devices, and

        determine the local destination address of the packets received by the

addressing device;

cause the addressing device to determine a symbolic name of a

destination address of a device from the packets;

utilize the association table to determine the destination address of the

packets; and

cause the packets to be sent to the destination address.

22. (Previously Amended) The addressing device of claim 21, wherein the addressing device is a router.

23. (Original) The addressing device of claim 22, wherein the router includes a DHCP server.

24. (Original) The addressing device of claim 22, wherein the router includes a NAT device.
25. (Cancelled)
26. (Original) The addressing device of claim 21, wherein the remote network is an Internet.